SuccessMaker®

System Requirements

SuccessMaker 8

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Overview

Based on current hardware and software technologies, Pearson has determined that the system requirements listed in this document will deliver acceptable operation and performance for the SuccessMaker 8 product.

Your site's actual performance may vary due to the following:

- Server application load
- Available network bandwidth
- Client security configuration
- Number of concurrent users
- Total student population
- Courseware usage
- Other variables

System requirements change due to rapid advances in technology, as well as product enhancements. If you have questions regarding the suitability of your specific computing environment, contact your Pearson Sales Representative.

Because system requirements are subject to change, always review the latest system requirements at: support.pearsonschool.com

For more information about Digital Learning Solutions, go to: pearsonschool.com/digital

These specifications are intended strictly as a guideline. They were developed in an environment free from network congestion, resource contention, and aggressive security measures.

Consider the minimum requirements applicable only if your workstations use a minimally configured and supported operating system, a minimally configured virus scanner, and only this Pearson application.

2

Desktop Stations

Desktop Stations

Operating systems are based on a supported **Web Browser** and **Adobe Flash Player** version combination.

Web Browsers:

- Internet Explorer 10 or 11 * (32/64-bit)
- Safari 7.1.x or 8.x (64-bit)
- Firefox version 38 or later (32-bit Windows; 64-bit Mac OS X)
- Chrome version 44 or later (32-bit Windows; 64-bit Mac OS X)

* For IE, only the desktop version is supported and not the metro or edge version.

** Fluency is not supported with Internet Explorer or Safari. For fluency recording, Chrome or Firefox browser is required.

Adobe Flash Player:

- Flash 18 * (32/64-bit)

* Math content requires Adobe Flash Player. Reading content is HTML5 and does not require the use Adobe Flash Player.

Hardware:

- Designed for 1024x768 resolution
- Any speakers or stereo headphones

  Griffin iMic USB audio adapter is suggested for Mac OS X clients.
- Microphone with noise canceling

Sound card or on-board audio chipset require manufacturer drivers. Using the Windows default audio driver will cause student performance issues during sessions.

Notes:

Pearson recommends having clients with at least 2GB of RAM dedicated for SuccessMaker to attain optimal performance.

3

Mobile / Tablets

Devices Tablets are based on a supported **Operating System**, **RAM**, **Screen Resolution** and specified **App** combination.
Operating System: • Chrome OS • iOS 8 * Reading and Math are both supported nativity with Chrome OS. For iOS, only Reading is supported nativity. Math requires the SuccessMaker App for iPad. For more information about mobile access options, see the SuccessMaker 8 Mobile Access Guide
RAM: • Chrome OS based Mobile and Tablet devices require a minimum of 2 GB (RAM) • iOS based Mobile and Tablet devices require a minimum 1 GB (RAM) * iPad models 1 and 2 do not meet the minimum RAM requirement. ** Apple lists iPad technical specifications by hard disk storage size capacity 16GB, 32GB etc. and does not commonly include (RAM) specifications for the various iPad models. Storage size capacity and RAM are two distinct specifications. Storage size capacity is the amount of disk space needed for installing applications. RAM is the amount of temporary random access memory available for running applications.
Screen Resolution: • Designed for 1024x768 resolution
SuccessMaker App for iPad: • Allows customers to access SM math courseware, which is currently unavailable directly from the browser on the iPad. • Can only be used with SuccessMaker hosted implementations as it requires internet access.
Hard Disk Capacity: • For Native operation – No client side installation or additional free storage space required. • SuccessMaker App for iPad – Requires approximately 15MB of free storage space.

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Stand-alone Deployment

The Stand-alone deployment supports one workstation that acts as the client and server at the same time. The workstation will have all three SuccessMaker product components installed: web, application, and database.

Client Station
SuccessMaker WEB/APP/DB

One Concurrent Student

Supports one concurrent client up to a total student population of 40. **Requires one dedicated physical client.**
Client running: Web, Application, and Database
Operating Systems: • Windows 7 (32/64-bit) • Windows 8 (32/64-bit) • Mac OS X 10.8 (64-bit) • Mac OS X 10.9 (64-bit) Hardware is based on the operating system manufacturer's system requirements. Pearson recommends having clients with at least 2GB of RAM dedicated for SuccessMaker to attain optimal performance.

Supports one concurrent client up to a total student population of 40.
Requires one dedicated physical client.

Hardware:

- Designed for 1024x768 resolution
- Any speakers or stereo headphones
- Microphone with noise canceling
- 100 GB of available disk space

Sound card or on-board audio chipset requires manufacturer drivers.

Using the Windows default audio driver will cause student performance issues during sessions.

Software:

- Internet Explorer 10, or 11 * (32/64-bit)
- Safari 7.1.x or 8.x (64-bit)
- Firefox version 38 or later (32-bit Windows; 64-bit Mac OS X)
- Chrome version 44 or later (32-bit Windows; 64-bit Mac OS X)
- Adobe Reader (Teacher interface only)
- Adobe Flash Player 18 (32/64-bit)

* For IE, only the desktop version is supported and not the metro or edge version.

** Fluency is not supported with Internet Explorer or Safari. For fluency recording, Chrome or Firefox browser is required.

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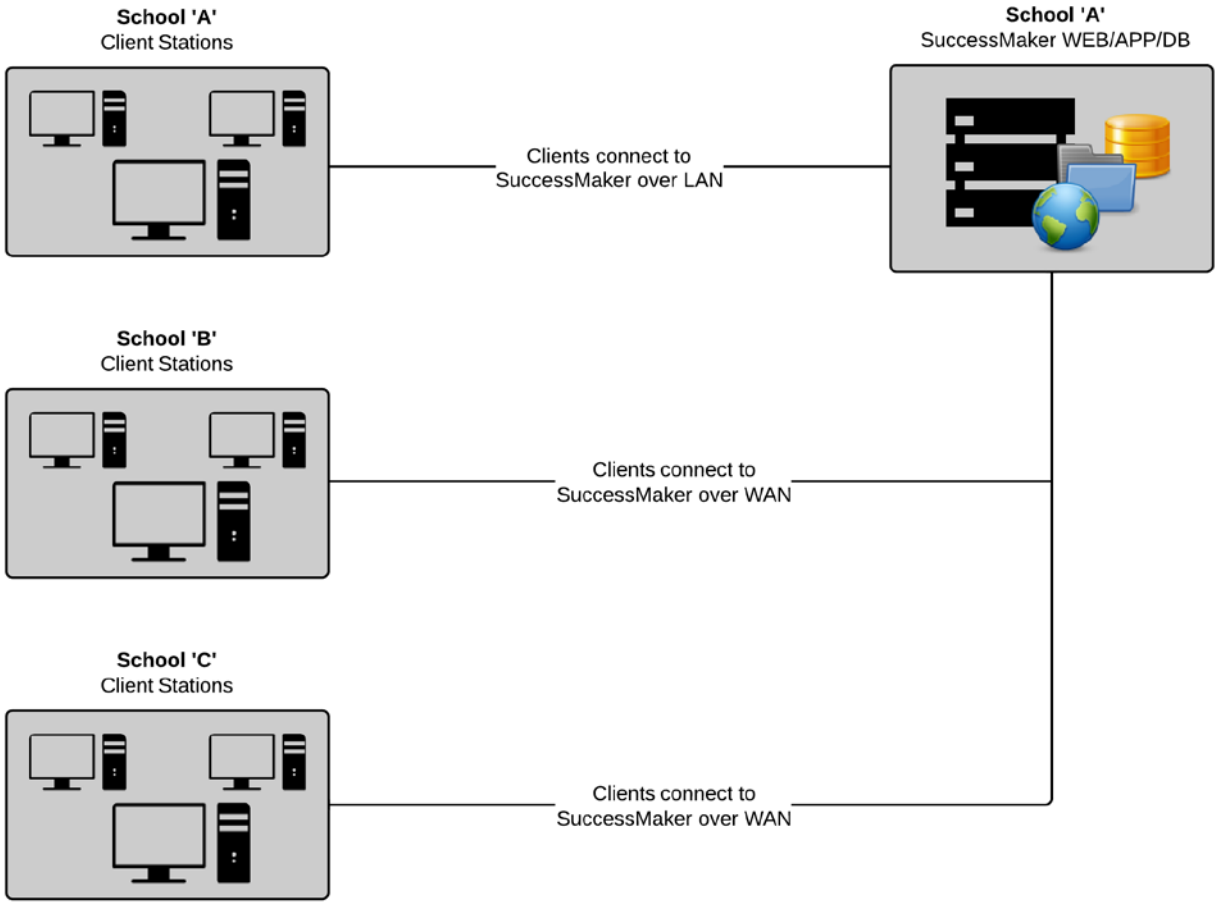
Single Server Deployment

The single server deployment is a model in which all components of the software are installed on one physical server.

Typically, the single server is located in a lab or different school location used by the lab or individual school. The single server can be available to multiple schools, if all requirements are met, including the concurrent student limitation.

Depending on the requirements, a single server can be an effective and low cost solution, one that requires less power and provides simple installation and maintenance.



Up to 200 Concurrent Students

Supports up to 200 concurrent clients up to a total student population of 1,500 **Requires one dedicated physical server**
Server running Web, Application, and Database
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Single Intel® Core 2 Duo 2.0 GHz processor • 4 GB of RAM • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 100 GB of available disk space

Up to 400 Concurrent Students

Supports up to 400 concurrent clients up to a total student population of 1,500 **Requires one dedicated physical server**
Server running Web, Application, and Database
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Single Intel Core 2 Duo 2.13 GHz processor • 6 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 7200 RPM SATA hard drives in RAID 1 • 100 GB of available disk space

Up to 2,000 Concurrent Students

Supports up to 2,000 concurrent clients up to a total student population of 10,000 **Requires one dedicated physical server**
Server running: Web, Application, and Database
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Single Intel Xeon® 2.66 GHz quad core processor • 8 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15,000 RPM SAS hard drives in RAID 1 • 100 GB of available disk space

Up to 3,000 Concurrent Students

Supports up to 3,000 concurrent clients up to a total student population of 20,000 **Requires one dedicated physical server**
One Server running: Web, Application, and Database
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 MB/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 100 GB of available disk space

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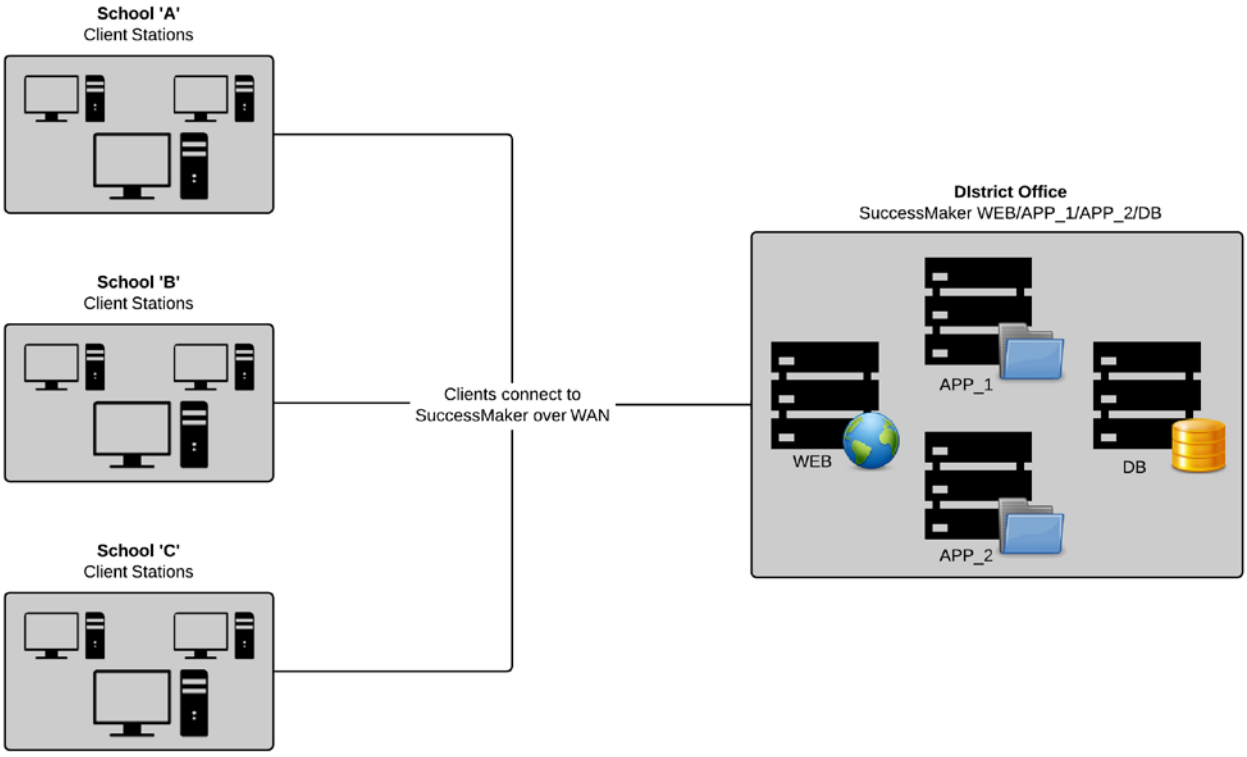
Multiple Server Deployment

The multiple server deployment is a model in which the main components of the software are installed on separate physical servers.

Typically, the servers are located in a district office or server farm used by the entire district or multiple schools.

Depending on the requirements, multiple servers may be necessary to handle the number of clients or to provide a central repository of district-wide data that is used for district reporting.

Multi-server installations vary by customer.



Up to 5,000 Concurrent Students

Supports up to 5,000 concurrent clients up to a total student population of 50,000 **Note: Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 8 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 8 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 5,000 concurrent clients up to a total student population of 50,000
Note: Requires three dedicated physical servers

* In implementations where heavy reporting is compiled while student sessions are active, a second **Application** server will be required and configured for load balancing. Multi-application configurations will then require a total of four servers (one Web, two App, and one Database).

One Server running: Database

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Four 15000 RPM SAS hard drives in RAID 1+0
- 200 GB of available disk space

Up to 6,000 Concurrent Students

Supports up to 6,000 concurrent clients up to a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 6,000 concurrent clients up to a total student population of 50,000
*** Requires three dedicated physical servers**

* In implementations where heavy reporting is compiled while student sessions are active, a second **Application** server will be required and configured for load balancing. Multi-application configurations will then require a total of 4 servers (one Web, two App, and one DB).

One Server running: Database

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Four 15000 RPM SAS hard drives in RAID 1+0
- 200 GB of available disk space

Up to 7,000 Concurrent Students

Supports up to 7,000 concurrent clients with a total student population of 50,000 *** Requires three dedicated physical servers**
One Server running: Web
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Four 15000 RPM SAS hard drives in RAID 1+0 • 30 GB of available disk space
*** One Server running: Application**
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Dual Intel Xeon 2.66 GHz quad core processors • 12 GB of RAM • Single 1000 Mb/s Network Interface Card • Two 15000 RPM SAS hard drives in RAID 1 • 30 GB of available disk space

Supports up to 7,000 concurrent clients with a total student population of 50,000
*** Requires three dedicated physical servers**

* In implementations where heavy reporting is compiled while student sessions are active, a second **Application** server will be required and configured for load balancing. Multi-application configurations will then require a total of 4 servers (one Web, two App, and one DB).

One Server running: Database

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Dual Intel Xeon 2.66 GHz quad core processors
- 24 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Four 15000 RPM SAS hard drives in RAID 1+0
- 200 GB of available disk space

Up to 9,000 Concurrent Students

Supports up to 9,000 concurrent clients with a total student population of 70,000
*** Requires three dedicated physical servers**

One Server running: Web

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Dual Intel Xeon 2.67 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Four 15000 RPM SAS hard drives in RAID 1+0
- 30 GB of available disk space

*** One Server running: Application**

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Dual Intel Xeon 2.67 GHz quad core processors
- 12 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Two 15000 RPM SAS hard drives in RAID 1
- 30 GB of available disk space

Supports up to 9,000 concurrent clients with a total student population of 70,000
*** Requires three dedicated physical servers**

* In implementations where heavy reporting is compiled while student sessions are active, a second **Application** server will be required and configured for load balancing. Multi-application configurations will then require a total of 4 servers (one Web, two App, and one DB).

One Server running: Database

Operating System:

- Windows Server 2008 R2 SP1 (64-bit)
- Windows Server 2012 R2 (64-bit)
- Mac OS X Server 10.8 (64-bit)
- Mac OS X Server 10.9 (64-bit)
- Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit)
- openSUSE 12.3 (64-bit)

Hardware:

- Four AMD Opteron 2.20 GHz quad core processors
- 32 GB of RAM
- Single 1000 Mb/s Network Interface Card
- Four 15000 RPM SAS hard drives in RAID 1+0
- 200 GB of available disk space

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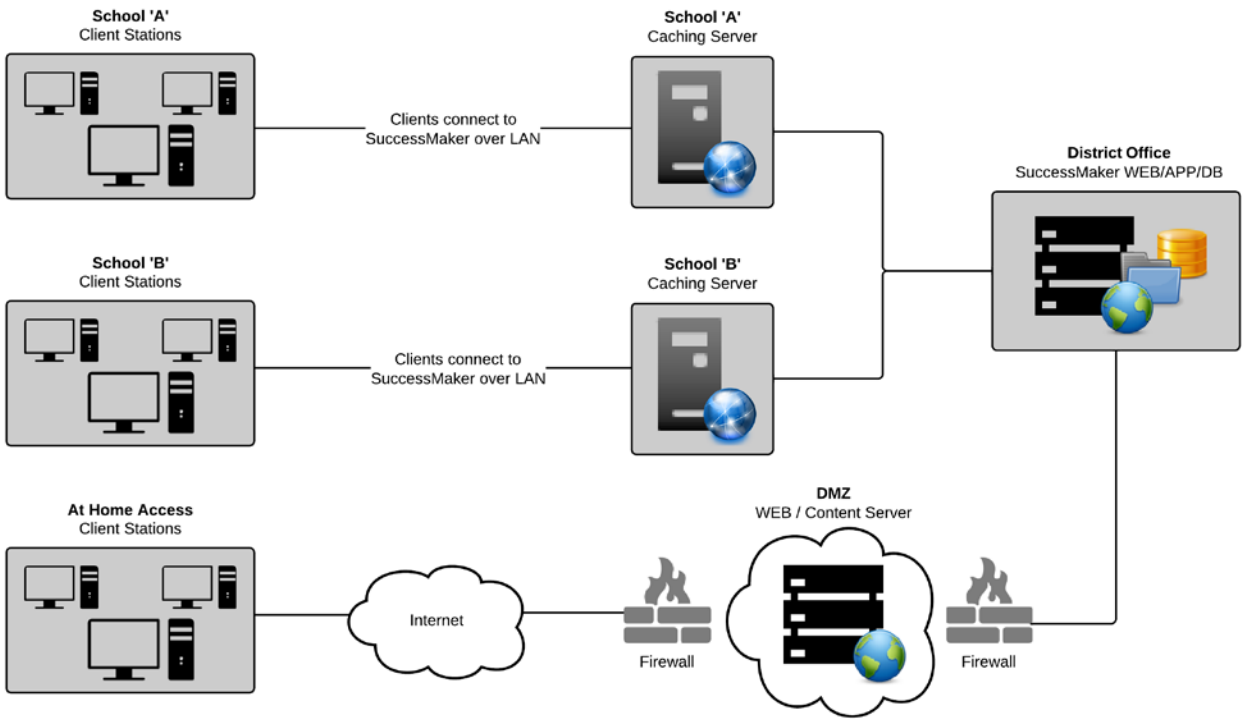
Web/Content Server

The Web content server is designed for large implementations at a central location, or it can be used to allow home access. Typically, the home access Web content server would be located in the DMZ for added security.

Caching solutions are permitted to reduce network traffic between buildings. Each implementation will be unique, based on concurrent student usage and total student population.



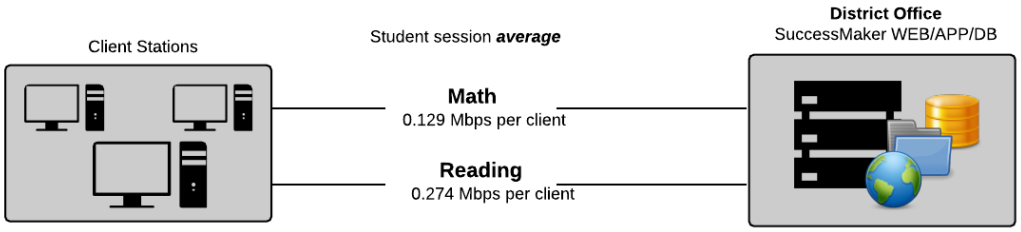
Up to 2,000 Concurrent Students

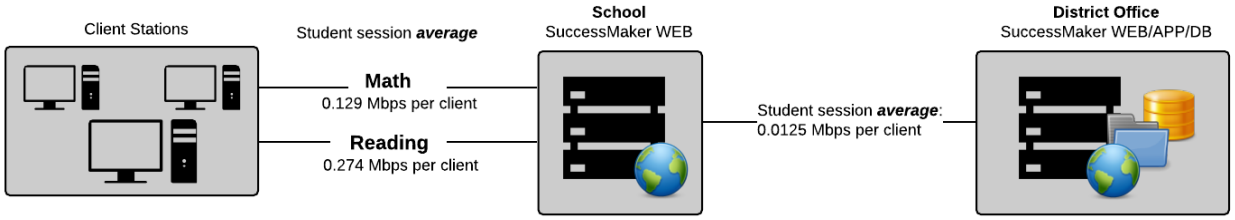
Supports up to 2000 concurrent clients **Requires one dedicated physical client or server**
Client or Server running: Web
Operating System: • Windows Server 2008 R2 SP1 (64-bit) • Windows Server 2012 R2 (64-bit) • Mac OS X Server 10.8 (64-bit) • Mac OS X Server 10.9 (64-bit) • Novell® SUSE Linux Enterprise Server 11 SP2 (64-bit) • openSUSE 12.3 (64-bit)
Hardware: • Single Intel® Core Duo 2.13 GHz processor • 6 GB of RAM • Single 1000 Mb/s Network Interface Card • Single 7200 RPM SATA hard drive • 30 GB of available disk space

8

Network Bandwidth

Network Bandwidth Requirements: School or District Model

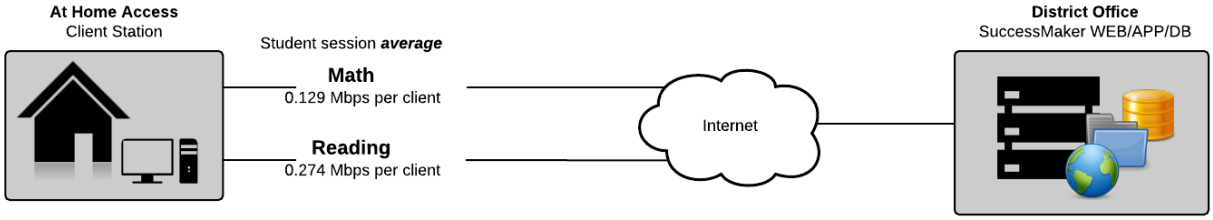




* The math and reading Mbps values indicated are averages only.

**All reading and math content is cacheable. Cache server implementations and maintenance are the responsibility of the school or district.

Network Bandwidth Requirements: Home Model



* Requires 1.5 Mbps (Megabit) Internet connection.

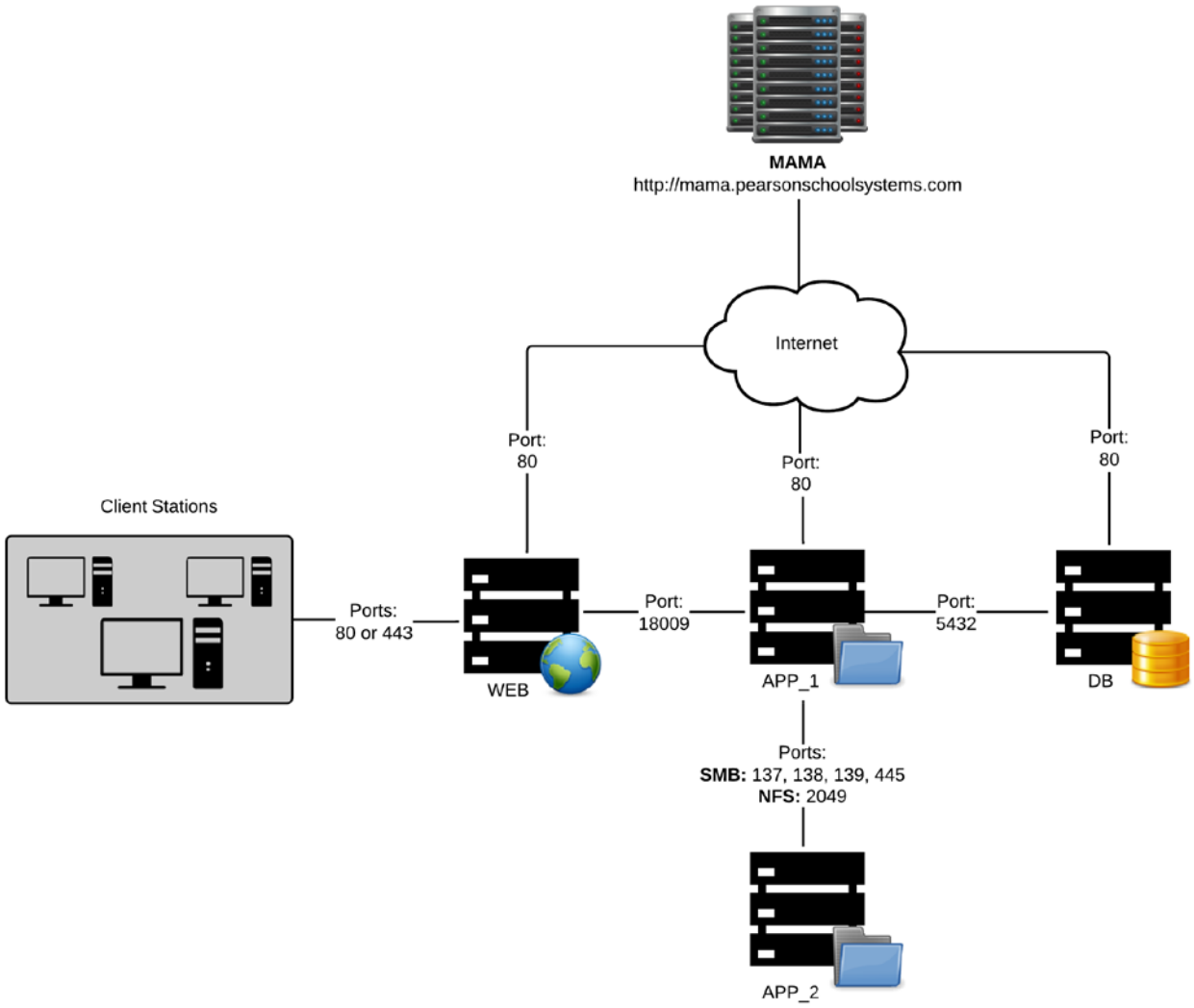
Network Bandwidth Requirements: Wireless

Spectrum: 802.11A or 802.11N in 5 GHz spectrum

In properly configured networks, wireless should be acceptable with 15 to 30 stations per access point.

Notes: Estimates are based on product traffic only, without overhead.

9

Firewall Settings

Here are the guidelines for firewall settings.